

Install the Switch

To install your switch on a flat surface, you do not need any special tools. Be sure the switch is positioned with at least 2 inches of space on all sides for ventilation.

To install the switch in a rack, first attach the mounting brackets to the side of the switch. Insert the screws provided in the rack mount kit through each bracket mounting hole in the switch. Tighten the screws with a #1 Phillips screwdriver to secure each bracket. Align the mounting holes in the brackets with the holes in the rack and insert two pan-head screws with nylon washers through each bracket and into the rack. Tighten the screw with a #2 Phillips screwdriver to secure the switch in the rack.

Connect the Devices

To connect devices to the switch:

1. Connect the devices to the 10/100 Mbps ports on the switch, using Category 5 UTP cable and an RJ-45 Plug.

➔ **Note:** Ethernet specifications limit the cable length between your PC or server and the switch to 328 feet (100 meters) in length.

2. Connect one end of the DC power adapter cable to the power outlet on the rear panel of the switch and other end of the power adapter cable to wall outlet.

NETGEAR®

NETGEAR, Inc.
4500 Great America Parkway
Santa Clara, CA 95054
<http://www.NETGEAR.com>

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Trademarks

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Statement of Conditions

In the interest of improving internal design, operational function, and/or reliability, NETGEAR reserves the right to make changes to the products to the products described in this document without notice. NETGEAR does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein.

Certificate of the Manufacturer/Importer

By certified that the NETGEAR ProSafe JFS524F Fast Ethernet Switch W/100FX has been suppressed in accordance with the conditions set out in the BMPT-AmisbIVg 243/1991 and Vfg 46/1992. The operation of some equipment (for example, test transmitters) in accordance with the regulations may, however, be subject to certain restrictions. Please refer to the notes in the operating instructions. Federal Office for Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted the right to test the series for compliance with the regulations.

Voluntary Control Council for Interference (VCCI) Statement

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

EN 55 022 Declaration of Conformance

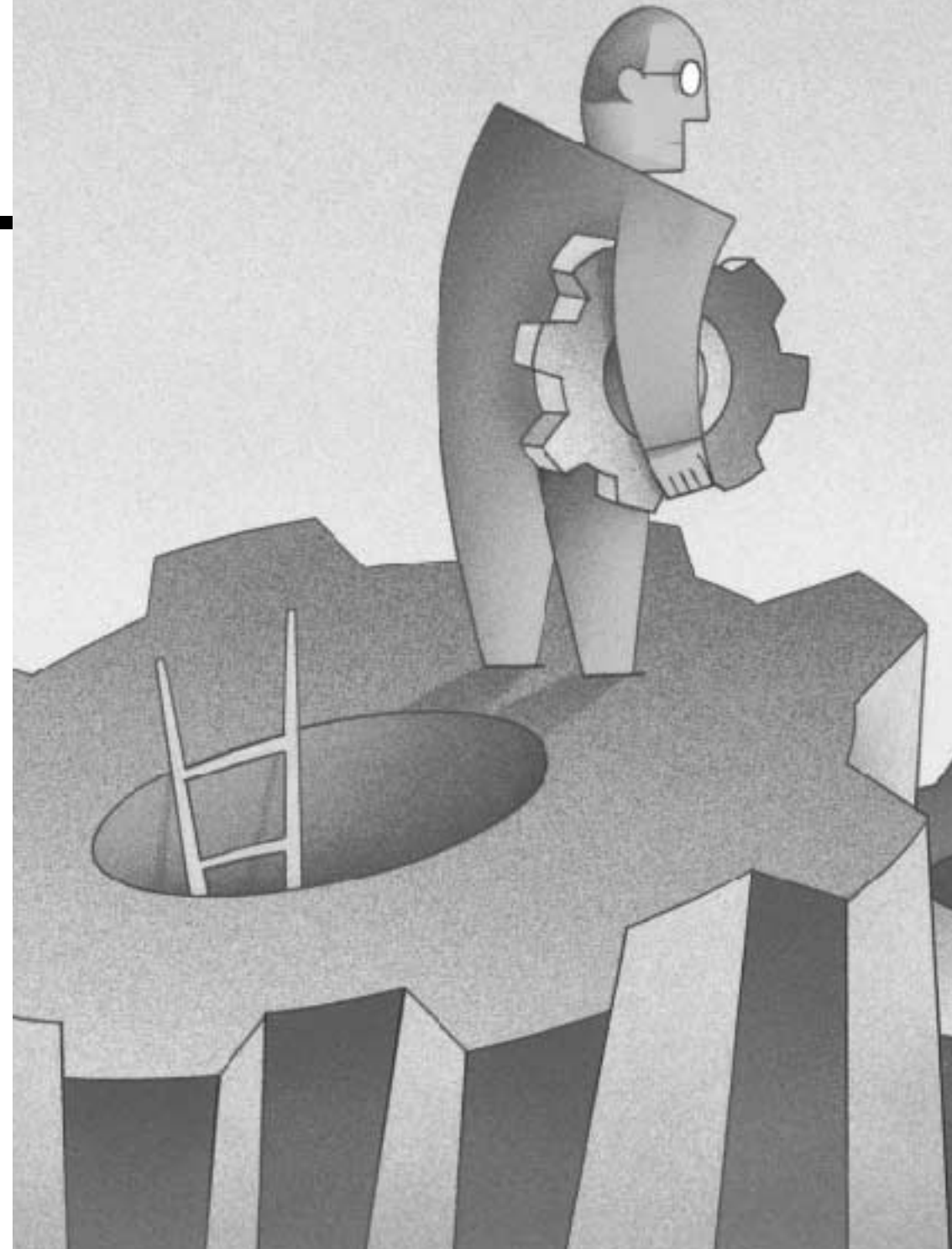
This is to certify that the NETGEAR ProSafe JFS524F Fast Ethernet Switch W/100FX is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN35 022 Class A (CISPR 22).



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JFS 524F

ProSafe 10/100 Switch W/100FX Installation Guide



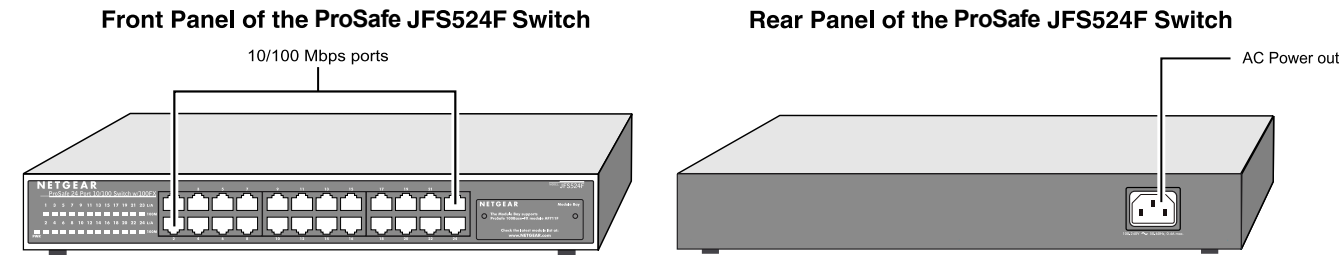
Start Here

The NETGEAR® ProSafe JFS524F 24 Port 10/100 Mbps Switch with 100FX provides you with a low-cost, high-performance network solution and are designed to support power workgroups operating at either 10 megabits per second (Mbps) or 100 Mbps.

Ethernet switches provide private, dedicated, 10Mbps (or 100 Mbps) capacity to each connected PC/server or hub/workgroup segment, which is significantly higher than in a shared environment. The higher bandwidth enables the use of applications such as multimedia, imaging, video, or high-performance client-server functions among users who are spread out over the network.

With the ProSafe JFS524F 24 Port 10/100 Mbps Switch with optional 100FX module (AF711F), improvement is accomplished very easily, with no change to the desktop (the network interface cards or software and the network wiring). As a result, the performance upgrade and the applications it enables are obtained very quickly and at a low cost.

Product Illustration



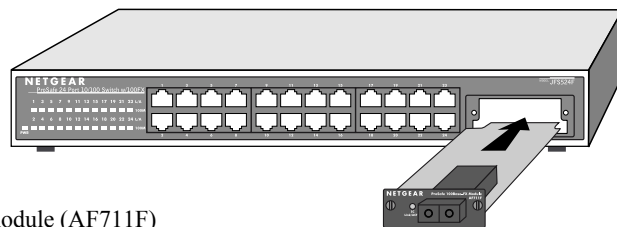
LEDs

The table below describes the activity of the LEDs.

Label	Color	Activity	Description
PWR (Power)	Green	On Off	Power is supplied to the Switch. Power is disconnected.
Link / Activity (Port Number)	Green	Solid Blinking	Valid Link on the port. Packet transmission or receiving on the port.
100M	Green	On Off	The port is operating in 100 Mbps mode. The port is operating in 10 Mbps mode, if corresponding L/A LED is Solid or Blinking
SC Link/Act (Optional)	Green	On Blinking	Valid Link on the port Packet transmission or receiving on the port

Optional SC module (AF711F)

The modularity of ProSafe JFS524F switch provides you with a highly adaptable network. You can not only configure your network for 100FX fiber uplink, but, you also can opt to expand your network gradually and affordably as needed.



To install an optional 100FX SC module (AF711F)

- Unscrew and remove the module cover plate.
- Insert the module (AF711F) into the slot, press firmly to seat the module.
- Tighten the module screws.
- Power OFF and Power ON again if power has remained ON throughout the installation of SC module (AF711F).

1

Network Port

All ports on the switch are 10/100 Mbps capable ports that auto negotiate for speed, and duplex. Additionally, all ports have Auto Uplink™ to make the right connection.

Auto Uplink™

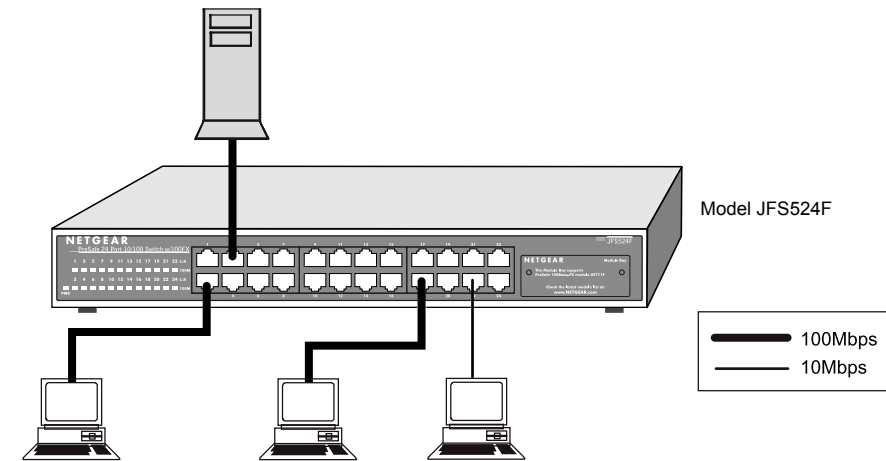
The Auto Uplink technology that NETGEAR has included in this product will automatically sense whether the straight-through cable plugged into any port should have a 'normal' connection, e.g. connecting to a PC; or an 'uplink' connection, e.g. connecting to a router, switch, or hub. That port will then configure itself to the correct configuration. This feature also eliminates the need to worry about crossover cables, as Auto Uplink will accommodate either type of cable to make the right connection.

Note: Auto Uplink will compensate for setting uplink connections, and crossover or straight-through cables. Using Auto Uplink to create multiple paths between any two network devices will disable your network.

Applications

Desktop Switching

ProSafe JFS524F switch is used as a desktop switch to build a small network that enables users to have 100 Mbps access to a file server. If a full-duplex adapter card is installed in the server or PC, a 200Mbps connection is possible on the port where the server or PC is completed.



Standards Compatibility	IEEE 802.3i 10BASE-T Ethernet IEEE 802.3 100BASE-FX Fast Ethernet IEEE 802.3x Flow Control Compatible with major network software, including Windows, NetWare, and Linux
Date Rate	100 Mbps with 4B/5B encoding and MLT-3 physical interface for 100BASE-TX 10 or 100 Mbps half-duplex/ 20 or 200 Mbps full-duplex
Network Interface	RJ-45 Maximum connector for 10BASE-T or 100BASE-TX Ethernet interface
Power	6.9W 100-240VAC/50-60 Hz universal input
Dimensions	328x43.2x169mm
Weight	1.6kg/3.5 lbs
Environmental Specifications	
Operating temperature:	0 to 40° C (32 to 104° F)
Operating humidity:	90% maximum relative humidity, noncondensing
Electromagnetic Compliance	VCCI Class A/ FCC Class A/ CE/ C-tick/ MIC
Safety Agency Approvals	CUL
Performance Specifications	Frame filter rate:148,000 for 100 Mbps :14,800 for 10 Mbps Frame forward rate:148,000 for 100 Mbps :14,800 for 10 Mbps Network latency (using 64-byte packets):100Mbps to 100 Mbps: 10 µs max Address database size: 4000 MAC addresses
Queue buffer	256KB
MTBF	110987.8 hrs (12.7 yrs)

2

Print material spec.

material: coated 100lb art paper

color: black and white with minimum 300 dpi grayscale images

Binding: make two fold

dimension: 400(W) x 260(H) mm (before folded)
200(W) x 130(H) mm (after folded)

Project source files: illustrator 10

*Page 3 is not part of QIG, please do not print.